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(54) PRODUCTION OF L-GLUTAMIC ACID BY
FERMENTATION METHOD

(57) Abstract:

PURPOSE: To industrially and inexpensively obtain the subject compound by culturing a variant belonging to the genus Brevibacterium or Corynebacterium, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis.

CONSTITUTION: A variant [e.g. Brevibacterium

lactofermentum-vancomycin resistant variant AJ12,557 (FERM P-11,730)] belonging to the genus Brevibacterium or Corynebacterium, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis, is inoculated into a medium having an osmotic pressure of 2,000-4,000 mOsm/kg.H₂O which is higher than a common medium in L-glutamic acid fermentation, subjected to shaking culture at 31.5°C, L-glutamic acid is formed and accumulated in the culture solution and collected to give the objective L-glutamic acid.

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